Grade 7 Academic Standards

Unit 3 Lesson

Science

Standard 1 The Nature and Science of Technology

Technology and Science

7.1.10 Identify ways technology has strongly influenced the course of history and continues to do so.

Standard 3 The Physical Setting

Matter and Energy

7.3.16 Recognize and explain that different ways of obtaining, transforming, and distributing energy have different environmental consequences.

Standard 4 The Living Environment

Human Identity

7.4.14 Explain that the environment may contain dangerous levels of substances that are harmful to human beings. Understand, therefore, that the good health of individuals requires monitoring the soil, air, and water as well as taking steps to keep them safe.

Social Studies

Standard 5 Individuals, Society, and Culture

7.5.4 Examine the impact of cultural change brought about by technological inventions and innovations in the past and present.

Unit 3 - Activities 1-5 satisfy the following Indiana academic standards:

Science

7.1.1 Recognize and explain that when similar investigations give different results, the scientific challenge is to judge whether the differences are trivial or significant, which often takes further studies to decide.

7.1.4 Describe that different explanations can be given for the same evidence, and it is not always possible to tell which one is correct without further inquiry.

7.1.8 Explain that technologies often have drawbacks as well as benefits. Consider a technology, such as the use of pesticides, which helps some organisms but may hurt others, either deliberately or inadvertently.

7.4.14 Explain that the environment may contain dangerous levels of substances that are harmful to human beings. Understand, therefore, that the good health of individuals requires monitoring the soil, air, and water as well as taking steps to keep them safe.

7.3.16 Recognize and explain that different ways of obtaining, transforming, and distributing energy have different environmental consequences.

Social Studies

7.5.4 Examine the impact of cultural change brought about by technological inventions and innovations in the past and present.